

 Hollywood, FL

 June 13-14, 2024

# 2024 TRANSPORTATION SYMPOSIUM

## NexGen Lessons Learned



Kevin Lopez  
FDOT District 6

&

Billy Scott  
FDOT District 4

# Introduction



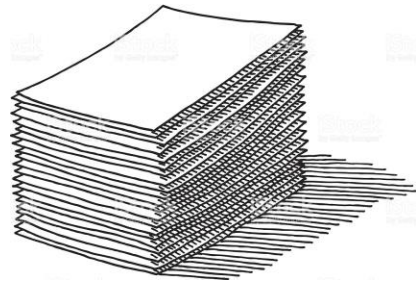
Kevin Lopez  
Internal Design Roadway  
Project Manager  
FDOT District 6



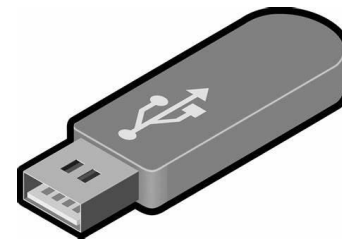
Billy Scott  
Internal Design Roadway  
Roadway Designer  
FDOT District 4

# What is NexGen?

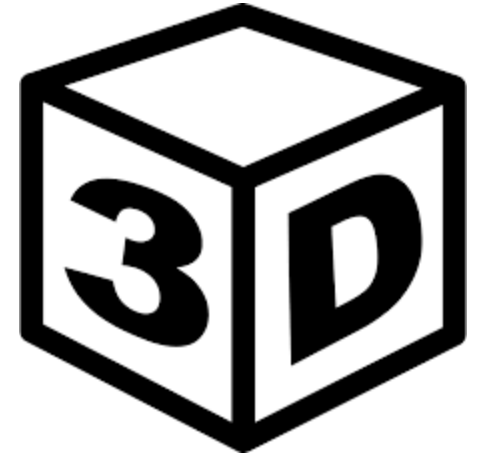
*Traditional Plan Submittal*



*NexGen Submittal*



*Computer Model*



# Importance of Best Practices

## Why Best Practices Matter

- Enhances efficiency and productivity.
- Ensures model quality and accuracy.
- Facilitates collaboration and project management.
- Reduces errors and rework.



# Lessons Learned

- Planning and Conceptualization
- Modeling Best Practices
- Collaboration and Review
- Common Issues

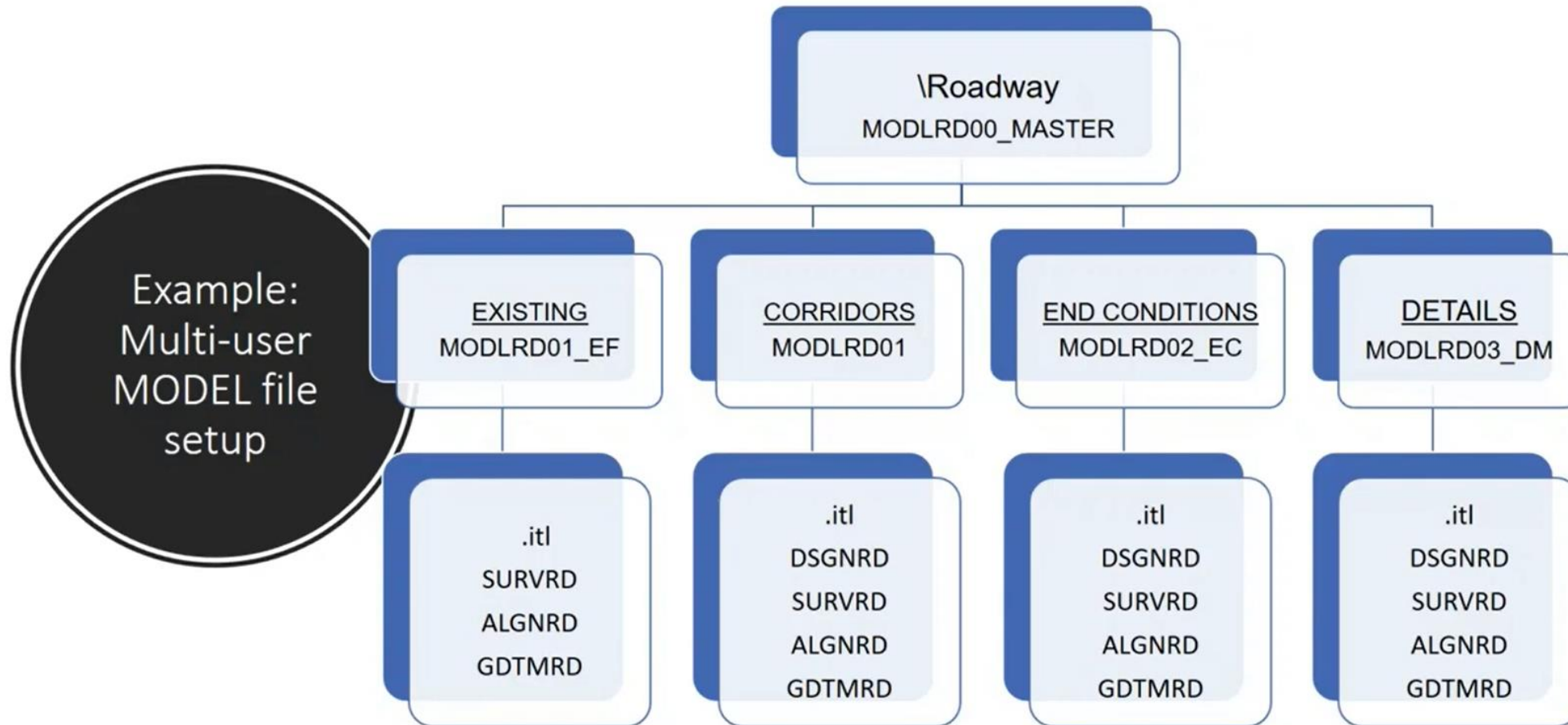


# Planning and Conceptualization

- Develop processes/checklist to review items that are no longer represented in plans
- Early 3D review of the Survey
- Model Management
- Follow FDM 900 Series
- Labeling

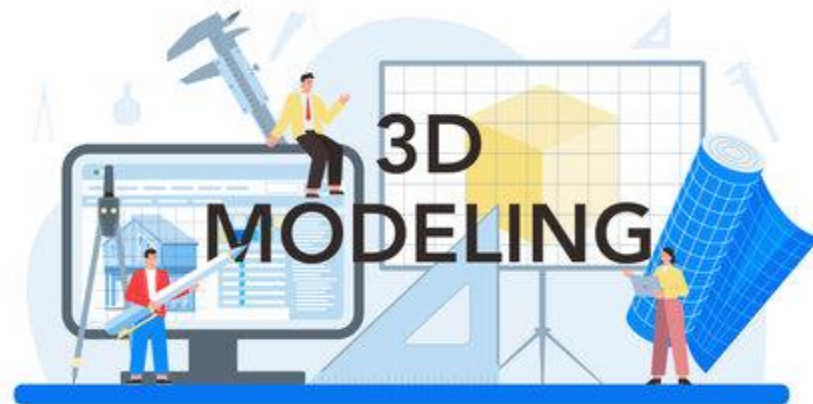


# Model Management Plan



# Modeling Best Practices

- File Management for Load times
- Master Model file & Master Template Library
- Develop Point and Component naming conventions and feature definition guidelines early in the modeling process
- Ensure 3D model templates are built to be compatible with the output generated report files





# Collaboration and Review

- 3D modeling scheduling
  - Many Disciplines are dependent on the 3D model for plans production
- Model Review and QC
  - Itwins
- Early Coordination for CEI scope and AMG specifications.



itwins

2024-06-05 07:03 UTC

Recorded by

Scott, Billy

Organized by

Scott, Billy

# Common issues

- Bid Q&As requests cross sections are common
- Level of detail needed in model
  - Cross Sections
  - Utilities
- Quantities in 3D model



# Safety Message

FLORIDA  
ARRIVE ALIVE  
THIS SUMMER



FLHSMV



# Contact Us



Kevin Lopez:

Project Manager

[KevinA.Lopez@dot.state.fl.us](mailto:KevinA.Lopez@dot.state.fl.us)

305-640-7130

Billy Scott:

Roadway Engineer

[Billy.Scott@dot.state.fl.us](mailto:Billy.Scott@dot.state.fl.us)

954-777-4336